

TEAM Norfolk

Hurricane Sandy
Council Briefing
November 6, 2012

Timeline of Events

October 25

Department Preparations Underway

4:00pm First EOC Briefing

October 26

10:45am Local Declaration of Emergency

11:00am Governor's Declaration of Emergency announced



October 27

5:00pm Joint Information Center (JIC) Activated

6:00pm Partial EOC Activation (Public Safety and Human Services in Support of Shelters)

6:30pm Shelters Opened

6:30pm Parking Safe Havens Available

- City garages as well as NPS lots, ODU garages and private sector partner lots.

October 28

6:00am Full EOC Activation

Timeline of Events (Cont.)

October 29

3:30pm 3 Shelters Closed; Consolidated into Bayview Recreation Center

October 30

9:00am Flood Gate Opened

9:00am Damage Assessments Began

11:00am Last Shelter Closed

12:00pm Final EOC Briefing / "Hotwash"

6:00pm End of Local Declaration

November 1

12:00pm Termination of Local Declaration







Top High Water Events - Sewells Point

Date	Storm Type	Above MLLW (1983-2001)	
August 23, 1933	Hurricane (unnamed)	8.02 feet	
September 18, 2003	Hurricane Isabel	7.89 feet	
November 12, 2009	Nor'easter	7,75 feet	
August 27, 2011	Hurricane Irene	7.56 feet	
March 7, 1962	Ash Wednesday Storm	7.22 feet	
September 18, 1936	Hurricane (unnamed)	6.72 feet	
November 22, 2006	Thanksgiving Nor'easter	6.63 feet	
February 5, 1998	Twin Nor'easter (#2)	6.58 feet	
October 7, 2006	Columbus Day Nor'easter	6.52 feet	
April 27, 1978	Nor'easter	6.41 feet	
April 11, 1956	Nor'easter	6.32 feet	
September 16, 1933	Hurricane (unnamed)	6.12 feet	
January 28, 1998	Twin Nor'easter (#1)	6.04 feet	
September 16, 1999	Hurricane Floyd	5.97 feet	
September 27, 1956	Hurricane Flossy	5.92 feet	
September 12, 1960	Hurricane Donna	5.92 feet	



Local Wind & Rain Observations

Norfolk International Airport

Rainfall through 8 am 10/30 - **5.68"**; max wind gust 10/28 - 52 mph; max wind gust 10/29 - 49 mph

Norfolk Naval Air Station

Rainfall through 8 am 10/30 - **4.3**"**; max wind gust 10/28 - 53 mph; max wind gust 10/29 - 46 mph**

** - some data missing on 10/29 @ Norfolk NAS.





Unity of Effort

KEYS:

Partnerships & Collaboration Data-driven decisions made and communicated early





























NORFOLK COMMUNITY SERVICES BOARD

OFFICE OF BUDGET & GRANTS MANAGEMENT









The Rest of the Team...

















































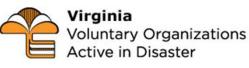








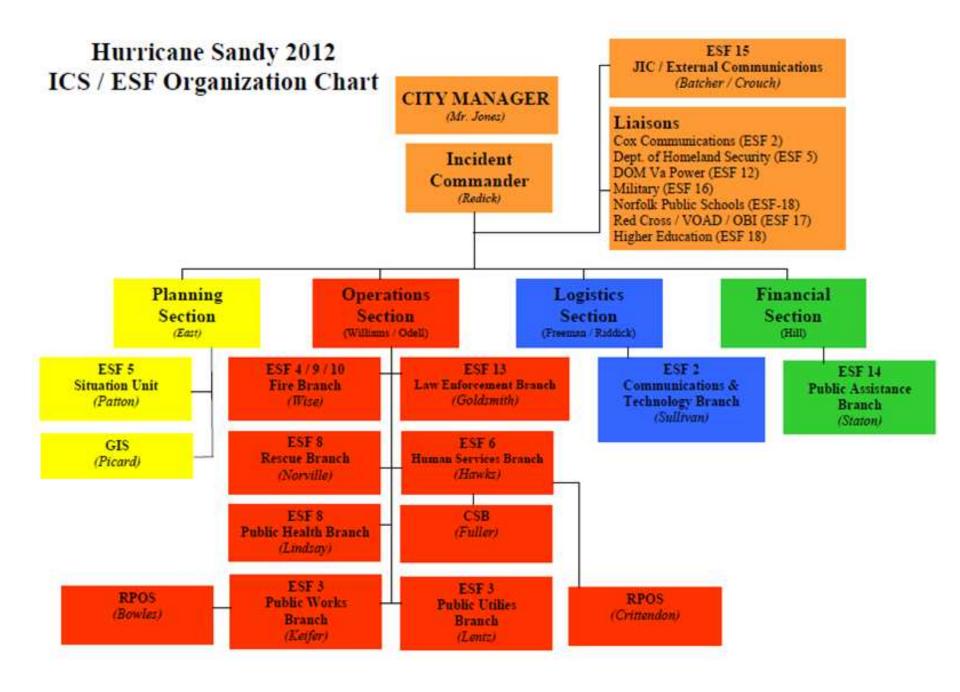






55 Positions / Agencies logged into WebEOC under the 'INCIDENT - Tropical Storm Sandy 2012' between 10/25/2012-10/30/2012





Data Collection & Reporting Process

Battle Rhythm Board

Requests for Situation Reports and Unit Logs

NIMS & ICS

Planning Section ICS 214's / SitRep / IAP

Emergency Support Function (ESF)

State SitRep

EOC Briefing

Incident Action Plan w/ Goals and Objectives

Posted to WebEOC



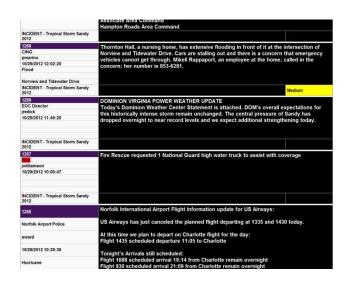


Communications with Community Partners





WebEOC 7.3	
iredick as Hospital Staff	Log Off
<u>Daily Operations - October - Decem</u> Boards	ber 2011
Position Log	
Battle Rhythm	8 8
LOCAL Situation Report (ESF 8)	
MEDIA REQUESTS	
Mission/Task	
Press Release	
Shelters	
Shelters Summary	
Significant Events	
Transportation - Road Conditions	₩ 🗵
Menus	
Dominion Power Web Links »	×
ICS/FEMA Forms »	×
MAP Web Links »	×
Transportation Links »	×
VA Emergency Web Links »	×
Weather Web Links »	×
Tools	
Admin	×
Chat	×
Checklists	×
Contacts	×
Messages	×
WehEOC Help	E



New Event		
10/25/2012 14:00:00	EOC Briefing at Norfolk Police Third Patrol Division (901 Asbury Avenue, Norfolk, VA 23513).	Redick
10/26/2012 10:00:00	VDEM Region 5 Conference Call	Redick
10/26/2012 14:00:00	EOC BRIEFING CANCELLED	
10/27/2012 10:00:00	VDEM Region 5 Conference Call	Redick
10/27/2012 16:00:00	Regional Emergency Manager Conference Call	Redick
10/27/2012 16:30:00	EOC Operational Briefing	Redick
10/27/2012 17:00:00	Activation of Joint Information Center (JIC)	Batche
10/27/2012 18:30:00	Shelters to Open to Public	Hawks
10/27/2012 18:30:00	EOC Operational Briefing	Redick
10/27/2012	Flood Gate Closures	Keifer

5	NWSWakefield Sandy Summary -rainfall.png		1	16
	NWSWakefield SandyBriefing Oct26 7am.pdf		+	13
7	NWSWakefield SandyBriefing Oct27 7am.pdf		1	18
3	NWSWakefield SandyBriefing Oct29 2pm.pdf		1	18
9	NWSWakefield SandyBriefing Oct29 8am.pdf		1	18
10	NWSWakefield SandyBriefing Oct30 10am.pdf		1	18
11	Oct 2012 PSAP Process of Reporting Damaged telephone Poles-Cables rev 10 28 12 doc	Verizon	+	13-
12	Regions 1 and 5 conference call notes 10-26-12 1000 hours.doc		+	13
13	Sandy BRIEFING - 10-25-12 0630.pdf		+	13
14	Sandy BRIEFING - 10-25-12 1700.pdf		+	18
15	Sandy BRIEFING - 10-26-12 1400.pdf		+	13
6	Sandy BRIEFING - 10-28-12 0600.pdf		1	18
17	Sandy BRIEFING - 10-28-12 1800.pdf		+	13
18	Sandy BRIEFING - 10-29-12 0600.pdf		+	13
19	Sandy BRIEFING - 10-29-12 1800.pdf		+	13
20	Sandy SPOT REPORT - 11PM 10-27-2012.pdf		+	13
21	TS Sandy Webpage Email - Bill Sammler - 0859 10-24- 2012.docx		+	13
	Verizon Hurricane Sandy prep release 10-28-2012.pdf	Verizon Press Release; 10-28- 12	+	13
23	VERT Sit Rep 1 - 26 October 2012 - Hurricane Sandy.docx		+	13
24	VERT Sit Rep 11 - 31 October 2012 - Hurricane Sandy docx		+	18
25	VERT Sit Rep 12 -1 November 2012 - Hurricane Sandy (3) docx		+	13
26	VERT Sit Rep 13 -1 November 2012 - Hurricane Sandy (3) docx		+	18
27	VERT Sit Rep 2 - 27 October 2012 - Hurricane Sandy docx		+	13
28	VERT Sit Rep 3 - 27 October 2012 - Hurricane Sandy docx		+	13
29	VERT Sit Rep 4 - 28 October 2012 - Hurricane Sandy.docx		1	13
	VERT Sit Rep 5 - 28 October 2012 - Hurricane Sandy.docx		1	13

Medical Needs Registry Outreach

Friday, October 26, 2012

Norfolk Public Health Medical Reserve Corps (MRC) Volunteers contacted every Norfolk participant in the Hampton Roads Special Needs Registry to discuss Preparedness, Plans, and ensure Contact Information for use in the Nixle Alert/Notification Program

Wednesday, November 1, 2012

MRC Volunteers returned and followed up with registrants to ensure they were well.





Parking Safe Havens

Downtown City Garages:

Boush Street, Freemason Street, York Street and MacArthur Center Garages North & South.

Other City Lots:

Pretlow Library in Ocean View, Barron Black Library off Military Highway, Bayview Recreation Center, Tarrallton Community Center

Norfolk Public Schools:

Berkeley Multi-Service Center, Blair Middle School, Campostella Elementary, Ghent School, Ingleside Elementary, Larchmont Elementary, Maury High School, Blair Middle School

Old Dominion University:

Parking garages C and D adjacent to Ted Constant Center and E next to the football stadium

Private:

ATC/Blackhawk off Miller Store Road.





Virginia Army National Guard 1st Battalion, 111th Artillery







SHELTERS



Bayview Recreation Center (Pet-Friendly Shelter)

TOTALS

61 People Sheltered

5 Pets



Norview High School



Granby High School



Campostella Elementary

All meals and transportation to shelters provided by Norfolk Public Schools
Shelters Managed by Human Services and Staffed by City Departments

Unified Public Information

SUBSCRIBERS

NIXLE

Before: 320

After: 1,664

FACEBOOK

Before: 3,048

After: 3,448

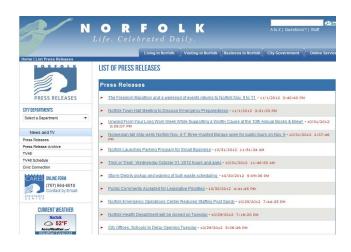
TWITTER

Before: 978

After: 1,200

Joint Information Center









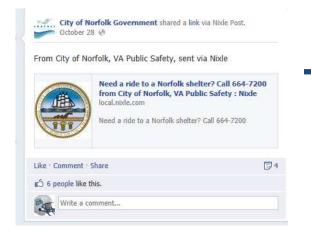




Message Type Sent To: **Public Groups:** Nixle Wire Message Details: Entered by: City of Norfolk, VA Public Safety Entered on: Sunday, October 28 2012 :: 6:53 p.m. EDT Contact: City of Norfolk, VA Public Safety 3661 E Virginia Beach Blvd Norfolk, VA 23502 | 757-441-5600 SMS Message: Need a ride to a Norfolk shelter? Call 664-7200 Email and Web Message: **Email and Web Subject** Need a ride to a Norfolk shelter? Call 664-7200 **Email and Web Body** Need a ride to a Norfolk shelter? Call 664-7200 Also Published to: Facebook

SMS Sent: 1376 Email Sent: 462

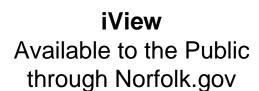


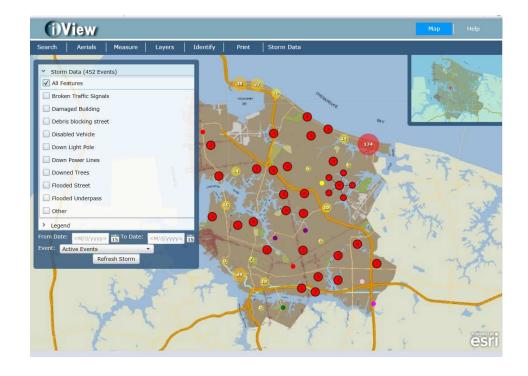




STORM

2012 Governor's Technology Award Innovative Use of Technology in Local Government Fraser Picard, Norfolk GIS





Recovery – Damage Assessment

Completed the day after the storm

 Exterior review of property using guidelines approved by the Virginia Department of Emergency management

 Intended to provide a quick estimate/ projection of damages

Recovery – Damage Assessment



Individual Assistance Damage Assessment Level Guidelines

Damage Definitions	General Description	Things to Look For	Water Levels			
DESTROYED	DESTROYED	DESTROYED	DESTROYED			
Structure is a total loss. Not economically feasible to rebuild.	Structure leveled above the foundation, or second floor is gone. Foundation or basement is significantly damaged.	Structure leveled or has major shifting off it's foundation or only the foundation remains. Roof is gone, with noticeable distortion to walls.	More than 4 feet in first floor. More than 2 feet in mobile home.			
MAJOR	MAJOR	MAJOR	MAJOR			
Structure is currently uninhabitable. Extensive repairs are necessary to make habitable. Will take more than 30 days to repair.	Walls collapsed. Exterior frame damaged. Roof off or collapsed. Major damage to utilities: furnace, water heater, well, septic system.	Portions of the roof and decking missing. Twisted, bowed, cracked, or collapsed walls. Structure penetrated by large foreign object, such as tree. Damaged foundation.	2 to 4 feet in first floor without basement. 1 foot or more in first floor with basement. 6 inches to 2 feet in mobile home with plywood floors. 1 inch in mobile home with particle board floors.			
MINOR	MINOR	MINOR	MINOR			
Structure is damaged, and uninhabitable. Minor repairs are necessary to make habitable. Will take less than 30 days to repair.	Interior flooring / exterior walls with minor damage. Tree(s) fallen on structure. Smoke damage. Shingles / roof tiles moved or missing.	Many missing shingles, broken windows and doors. Loose or missing siding. Minor shifting or settling of foundation. Minor damage to septic system.	2 inches to 2 feet in first floor without basement. 1 foot or more in basement. Crawlspace – reached insulation. Sewage - in basement. Mobile home, "Belly Board" to 6 inches.			
AFFECTED HABITABLE	AFFECTED HABITABLE	AFFECTED HABITABLE	AFFECTED HABITABLE			
Structure has received minimal damage and is habitable without repairs.	Chimney or porch damaged. Carpet on first floor soaked. Broken windows.	Few missing shingles, some broken windows. Damage to air conditioning units / etc. Some minor basement flooding.	Less than 2 inches in first floor Minor basement flooding. Mobile home, no water in "Belly Board".			

IDA Tips: Estimating Water Depths

Brick - 2 1/2 inches per course

Lap or aluminum siding - 4 inches or 8 inches per course

Stair risers - 7 inches

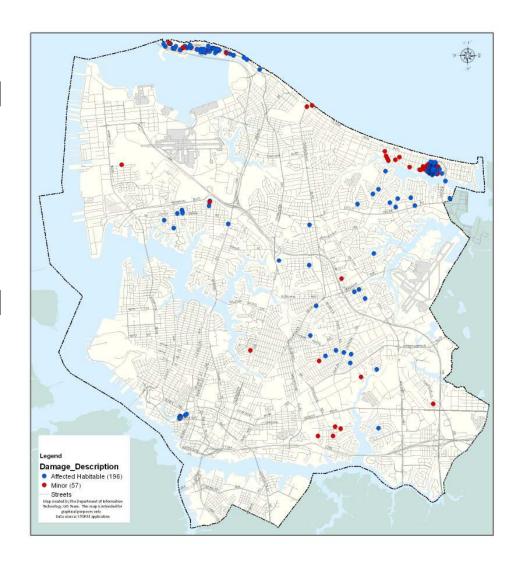
Concrete or cinder block - 8 inches per course

Door knobs - 36 inches above floor

Standard doors - 6 feet 8 inches

Recovery – Damage Assessment Results

- No significant public property damage found
 - Primarily debris removal
 - \$251,000 estimatedvalue
- No significant private property damage found
 - 253 properties
 - 196 Affected
 - 57 Minor Damage
 - + \$3,657,665 estimatedvalue



Next Steps

After Action Report

Improvement Planning and Implementation

Schedule Training

Mitigate

Exercise